

9000 km² of 5m RapidEye Data

Client Application

Mapping the extent and movement of the flood waters along the Murray River from Nyah to the SA Border to determine the impact on wetlands and agricultural areas.

Rivers, wetlands and their associated anabranches and floodplains are a defining feature of the Mallee Region, as such the health of these waterways and floodplains are fundamental to the region's environmental, social and economic future.

This strategic mapping and analysis task will be undertaken over the coming months.

The resulting analysis of the imagery will be used to inform future environmental watering activities, provide support for emergency flood response, assist in salinity accounting into the Murray River and indicate locations of water quality issues relating to floods.

The Mallee CMA's primary responsibility is to ensure that natural resources in the region are managed in an integrated and ecologically sustainable way.

Deliverables

5m RapidEye data for 9000 km²
Total size of data set 3.6 Gb, each tile 250 Mb
Data supplied in 25x25km tiles, GeoTiff
5 spectral bands: Blue, Green, Red, Red Edge, Near Infra-Red



Project Timeline

April 8	Purchase order provided
April 8	Satellite order confirmed
April 14	Area 1: 3,800 km ² captured 95% cloud free imagery achieved Capture request dates: April 9-16 Capture completed: April 10-14
April 22	Area 2: 5,200 km ² captured 95% cloud free imagery achieved Capture request dates: April 16-23 Capture completed: April 18-22

Benefits of RapidEye

- **Speed of capture:** Constellation of 5 identical satellites, ensures daily capture ability
- **Image resolution:** All 5 spectral bands captured at the same resolution
- **Speed of delivery:** option of direct download ftp
- **Extensive historical image library:** Valuable baseline information available from the online archive: <http://eyefind.rapideye.de/>

"These valuable new 5m resolution 'rapid response' data sets will enable important mapping not possible before." GIS Officer

Mallee Catchment Management Authority:

The Mallee CMA region covers 3.9 million hectares - about one fifth of Victoria. It is the largest catchment area in the State and runs along the Murray River from Nyah to the South Australian border, through National Parks and areas of high-value irrigated horticulture, and south through vast dryland cropping areas and Public Reserves to the Wimmera.

